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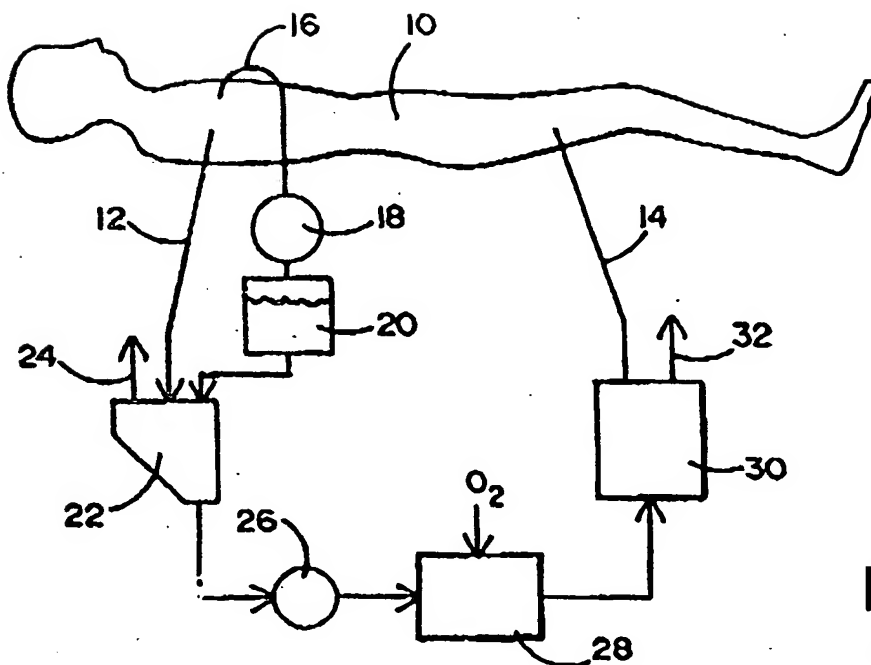


FIG. 1
PRIOR ART

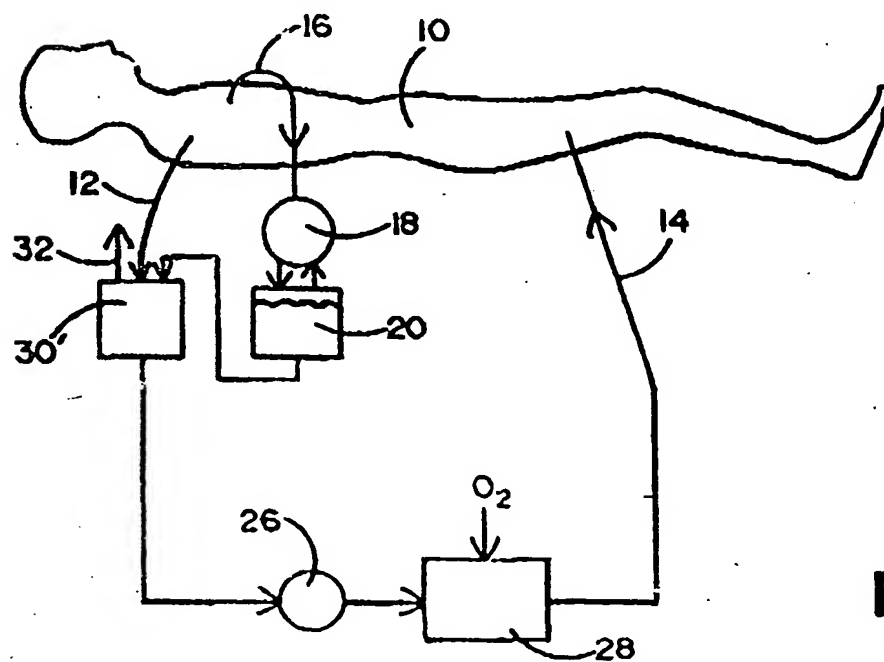


FIG. 2
PRIOR ART

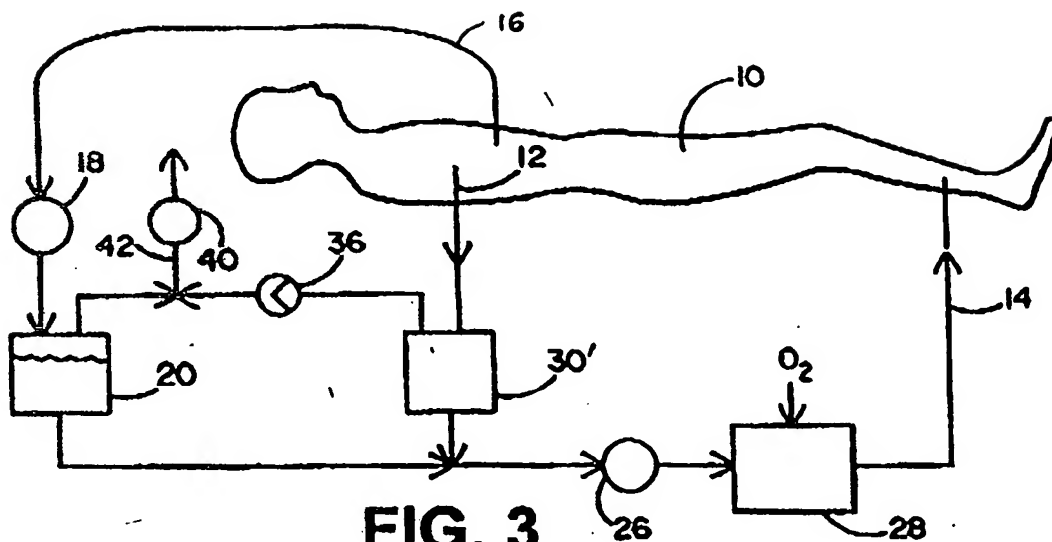


FIG. 3
PRIOR ART

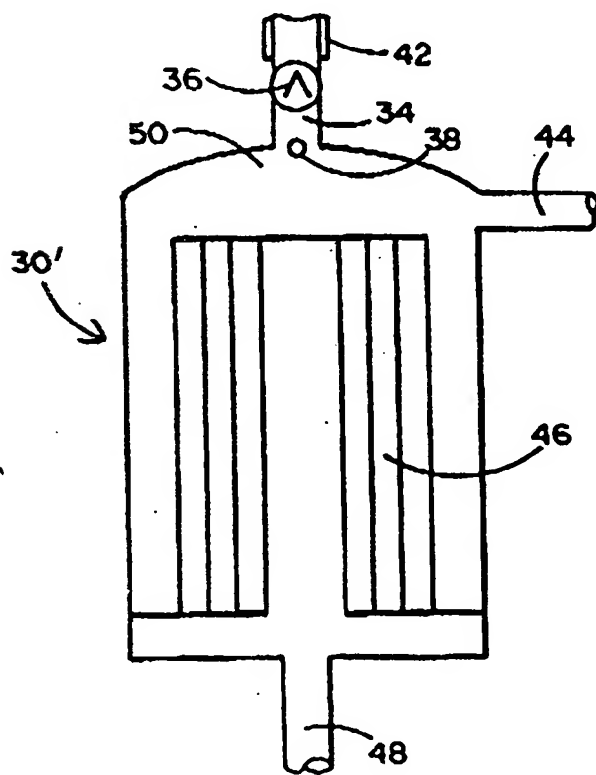
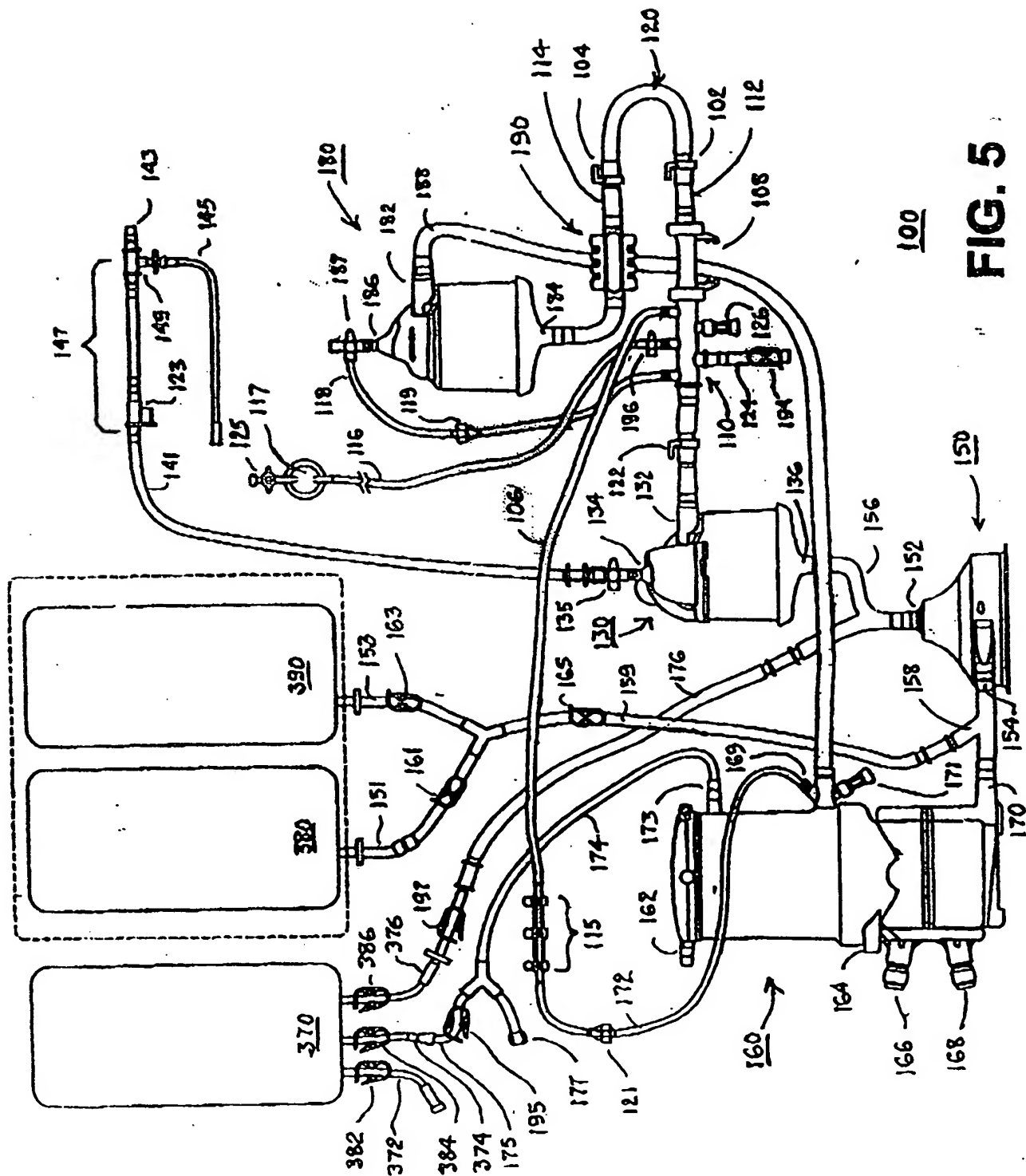


FIG. 4
PRIOR ART



100

FIG. 5

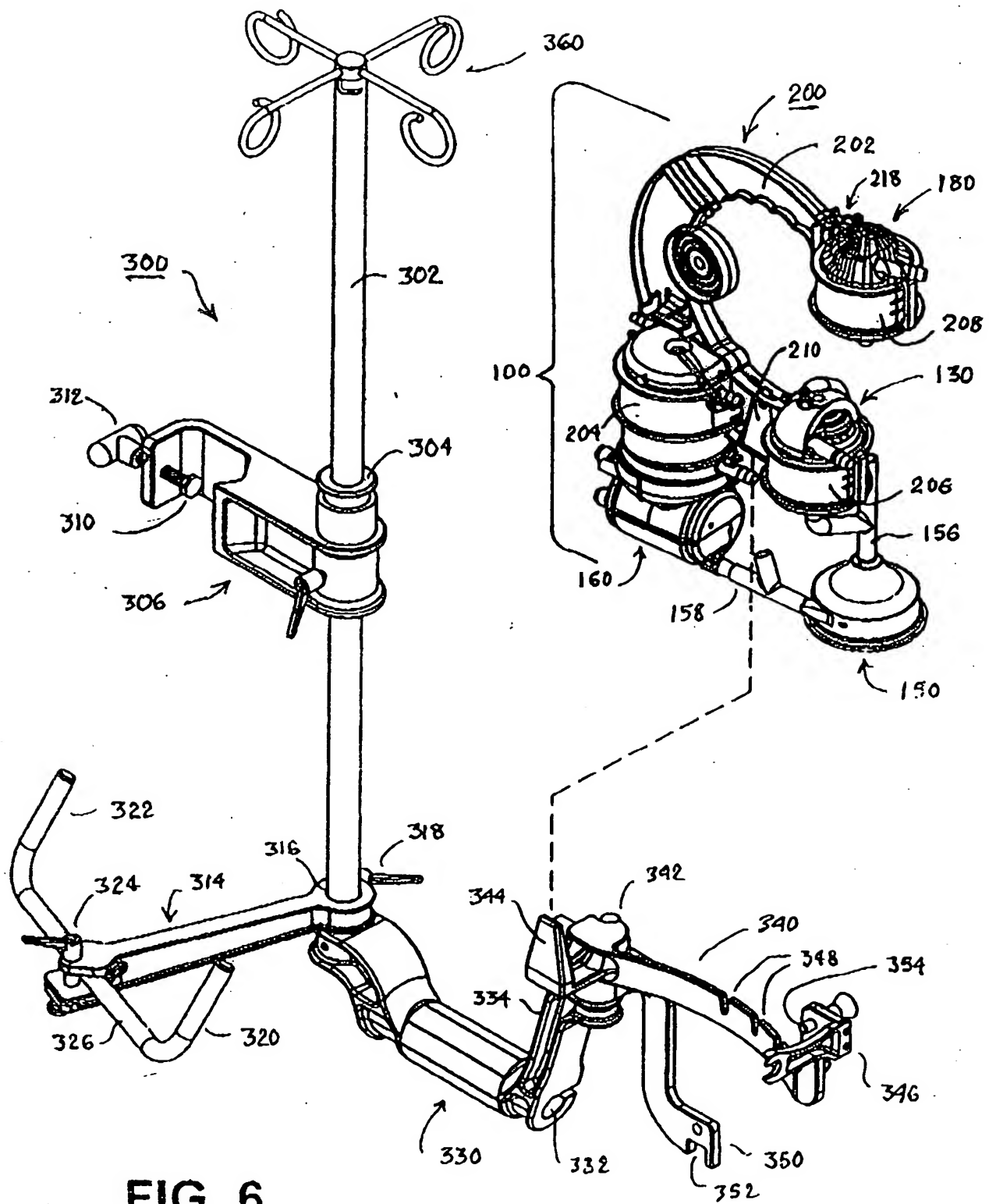


FIG. 6

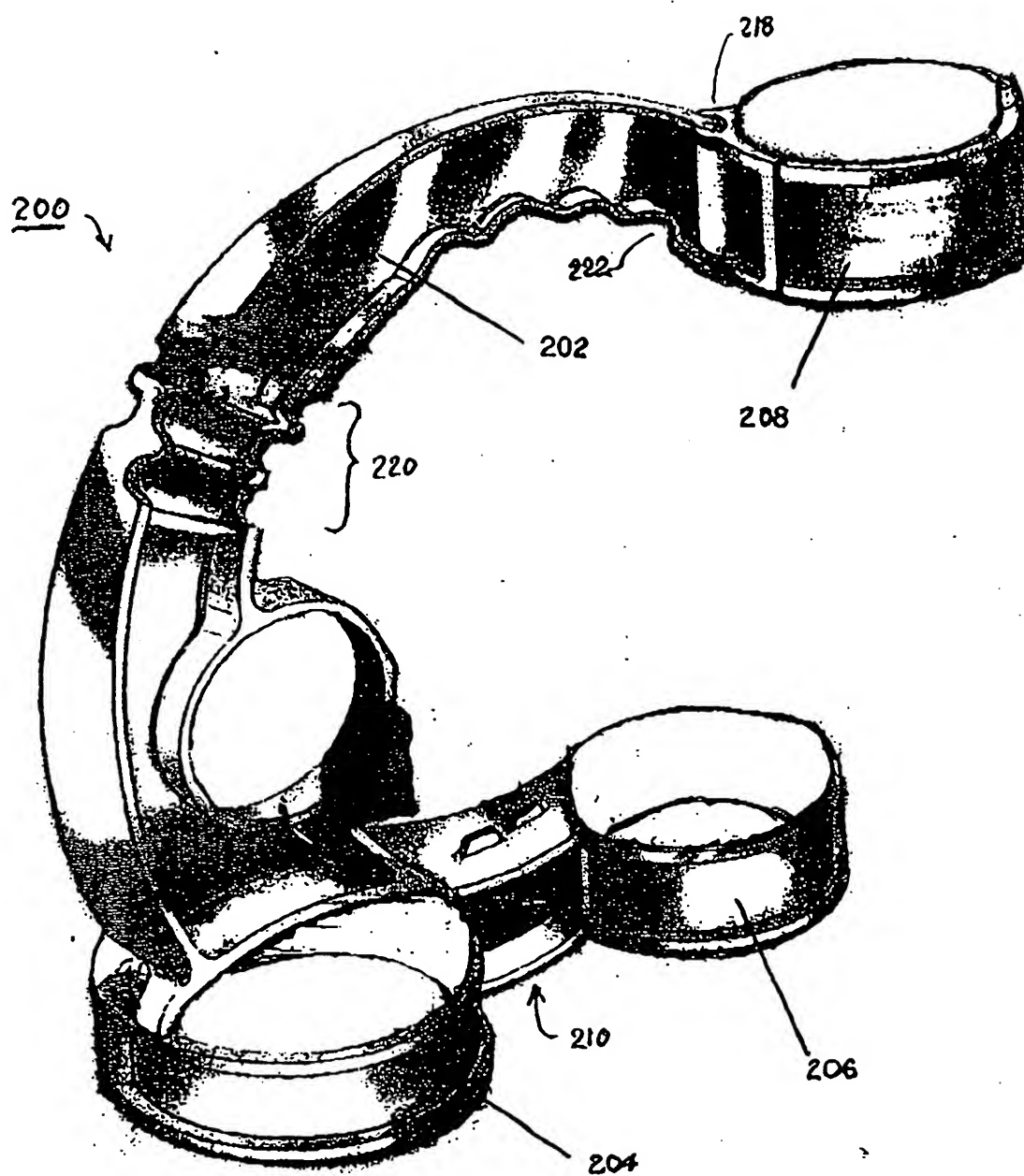


FIG. 7

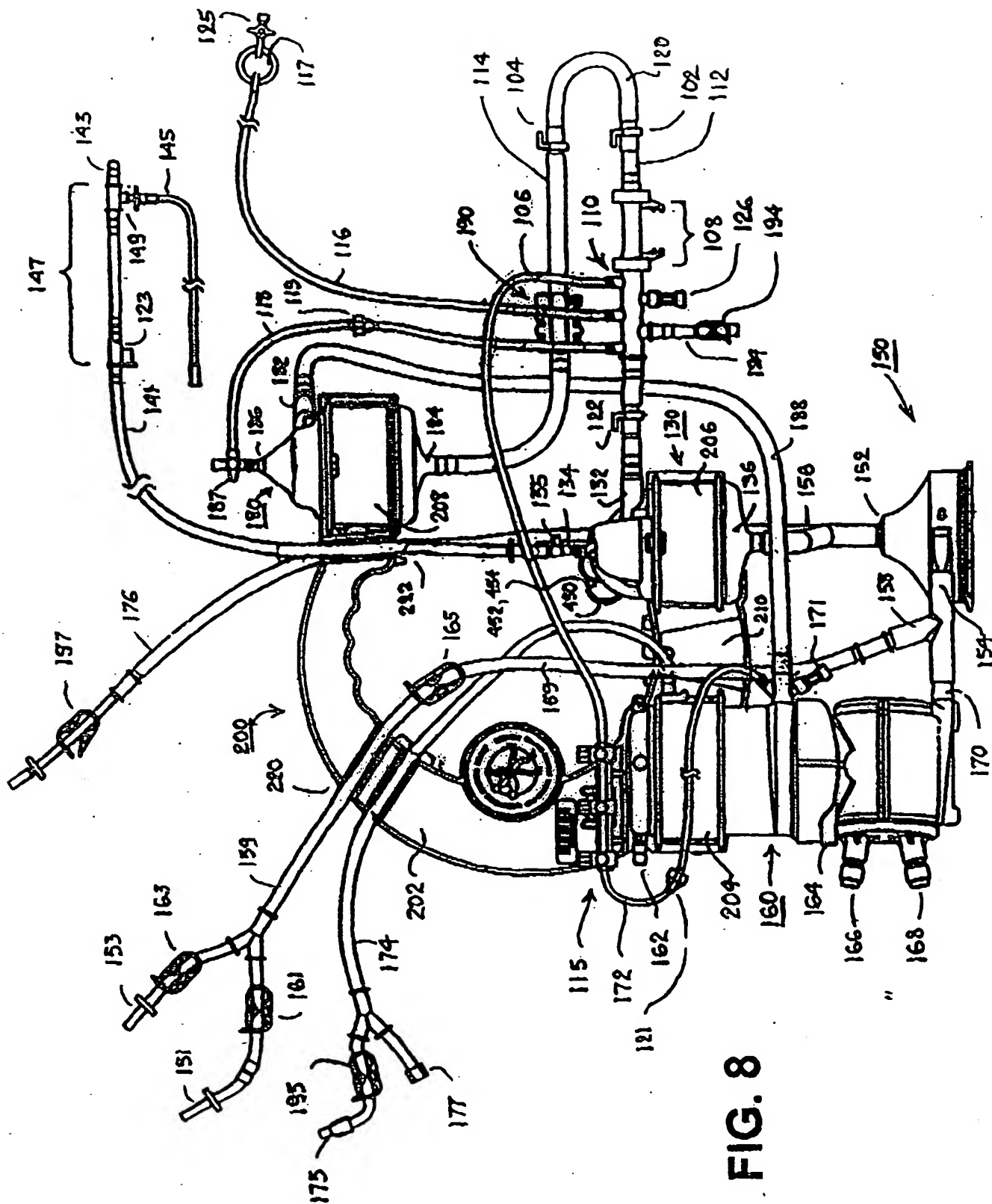


FIG. 8

FIG. 9

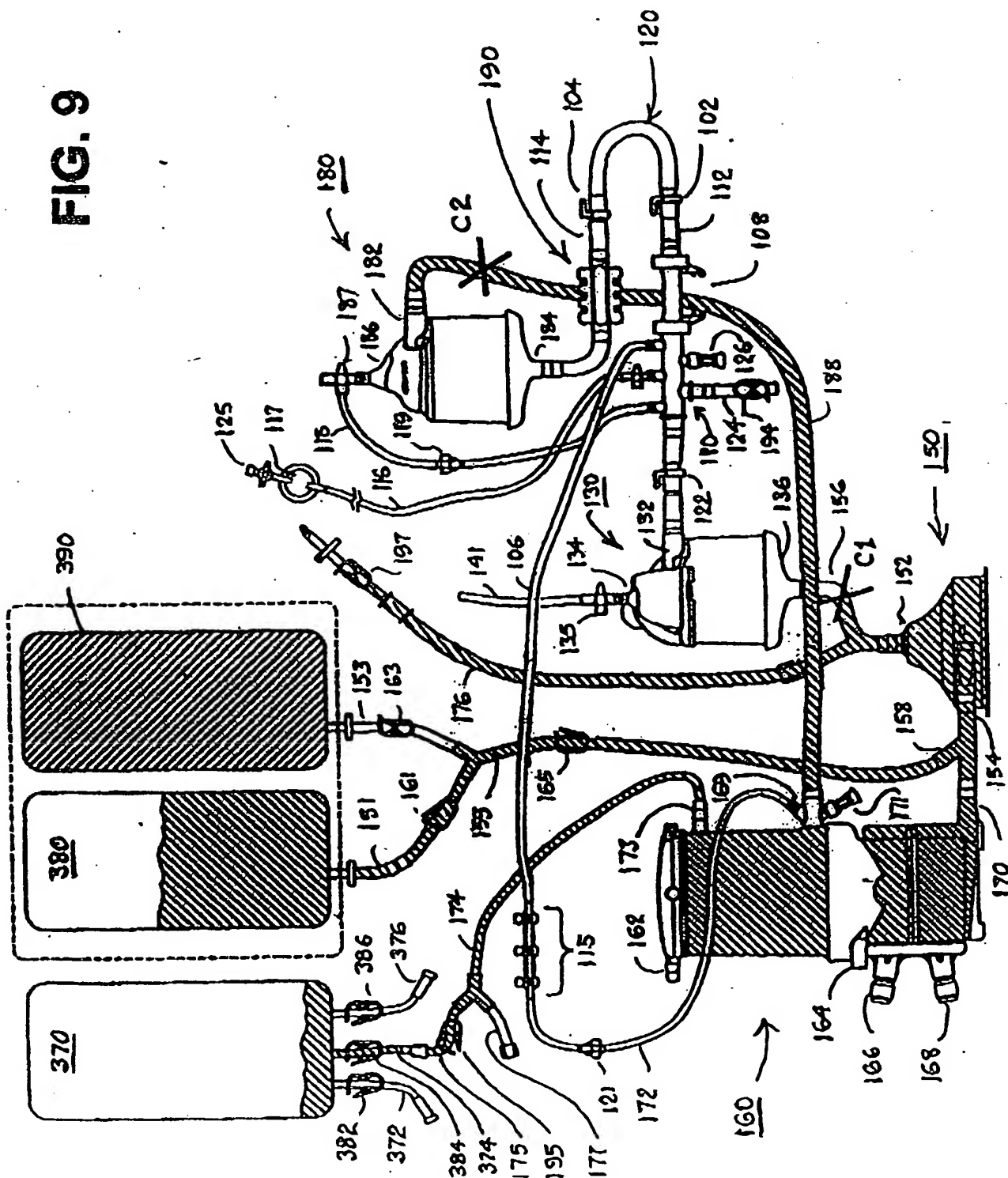


FIG. 10

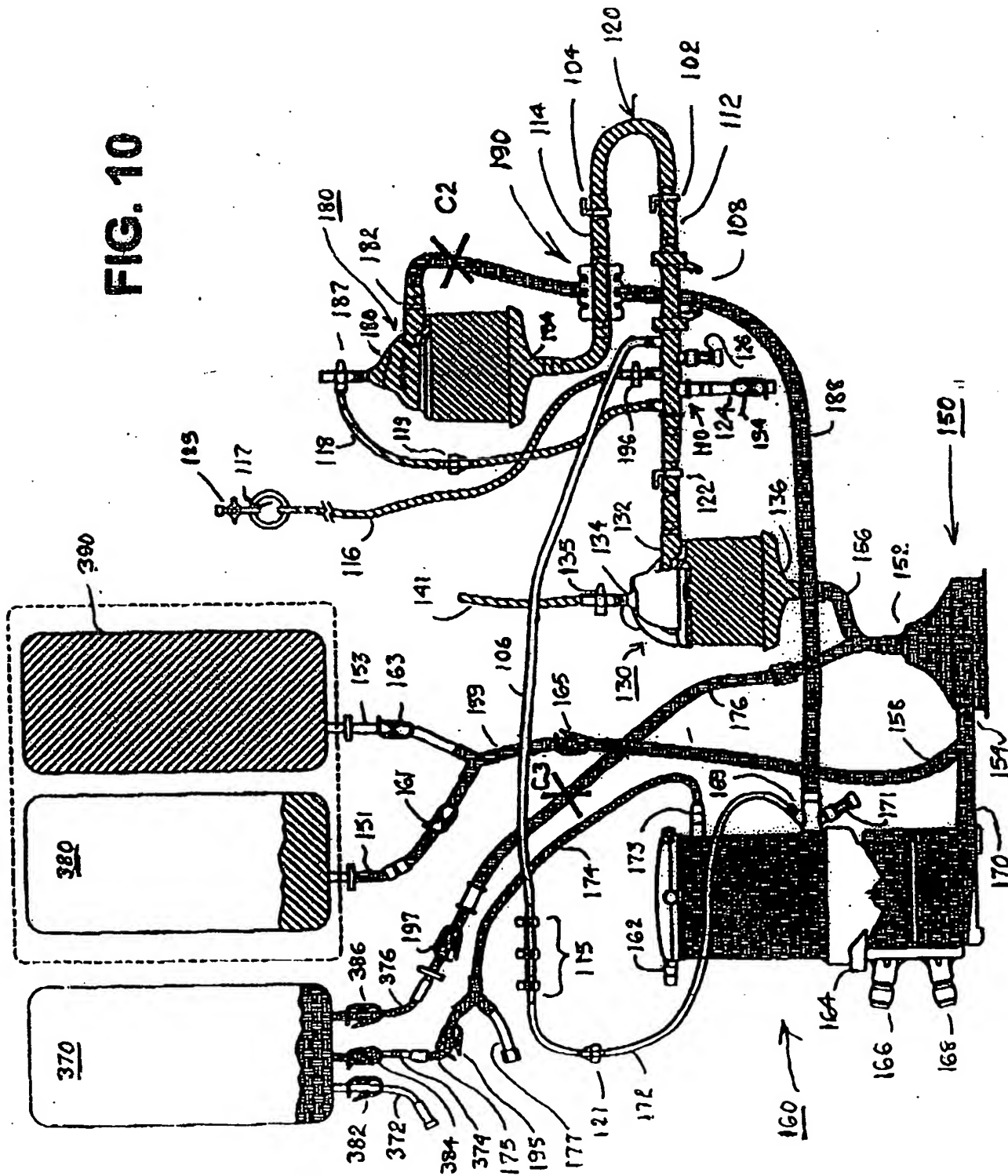
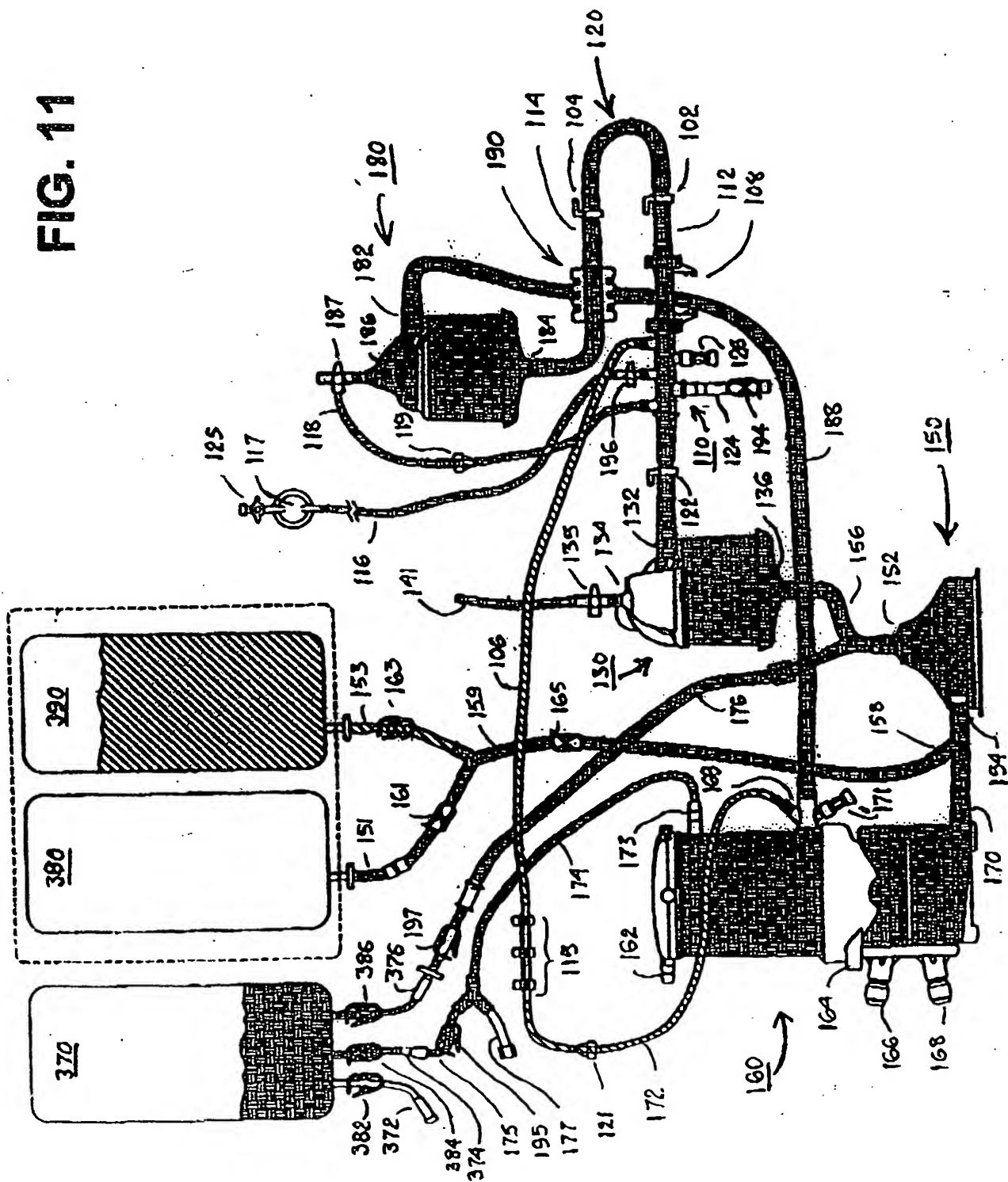


FIG. 11



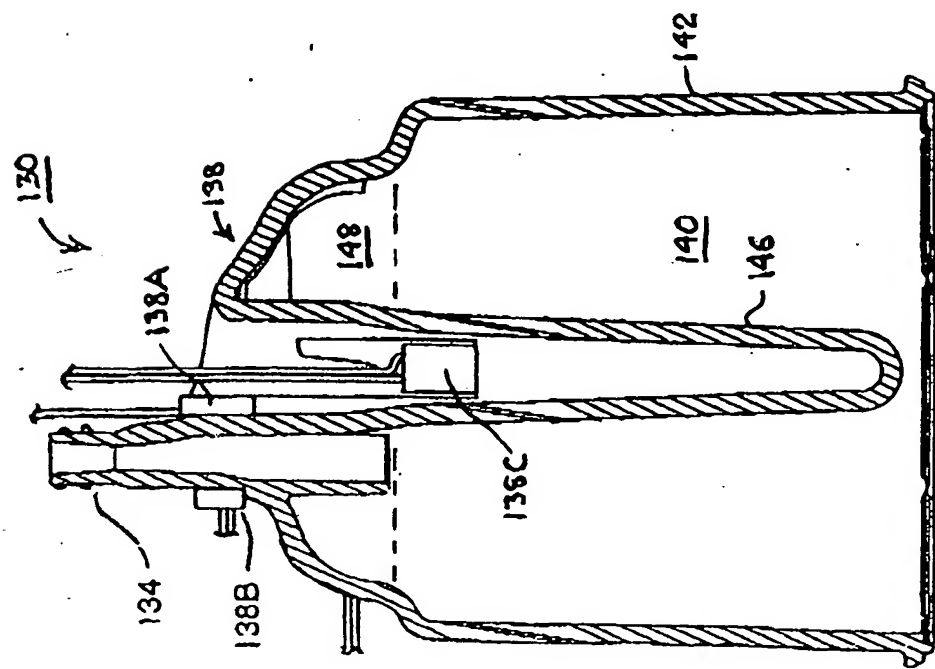


FIG. 12A

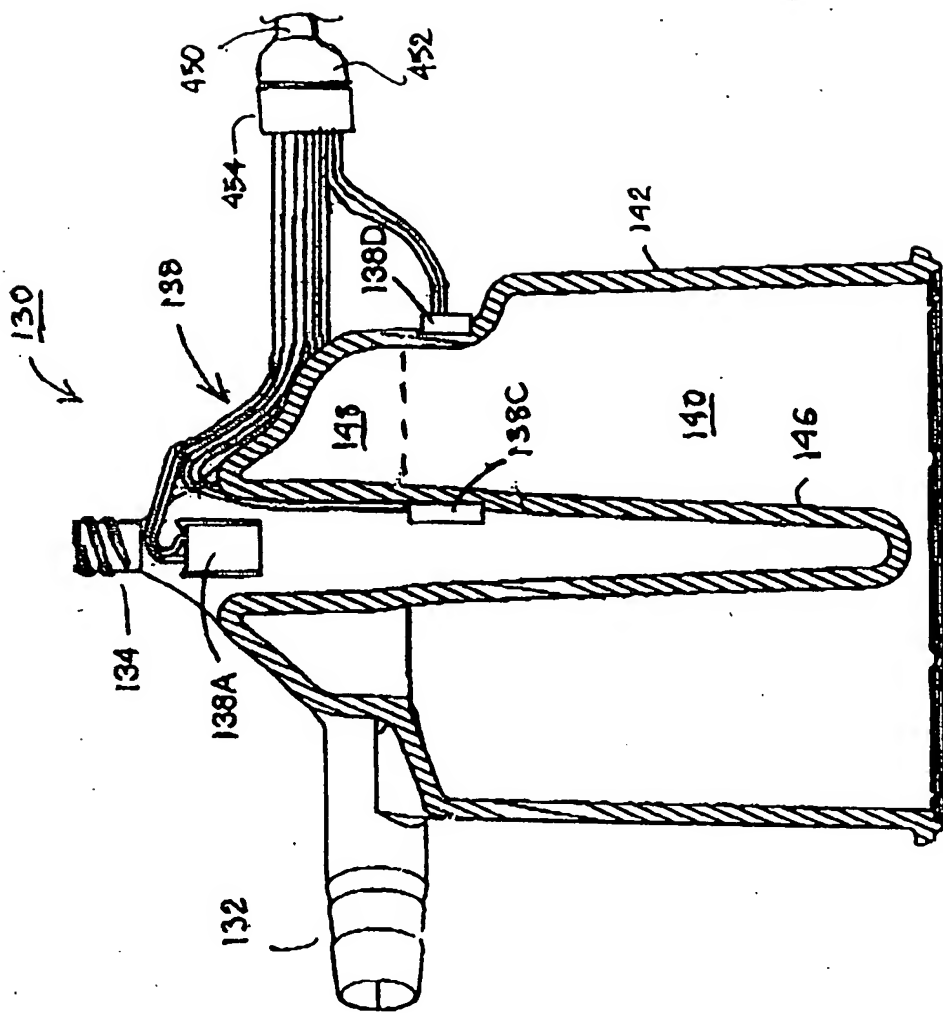


FIG. 12B

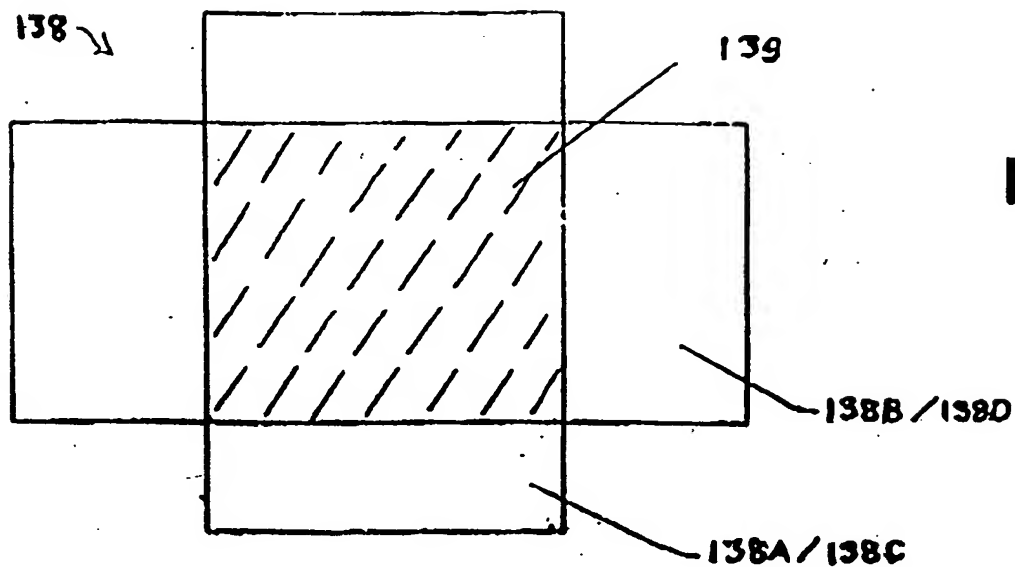
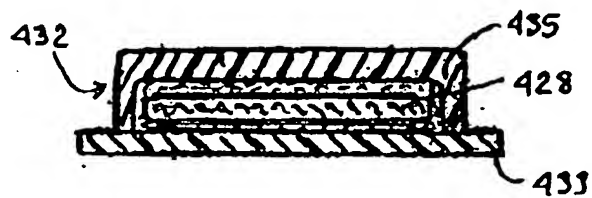
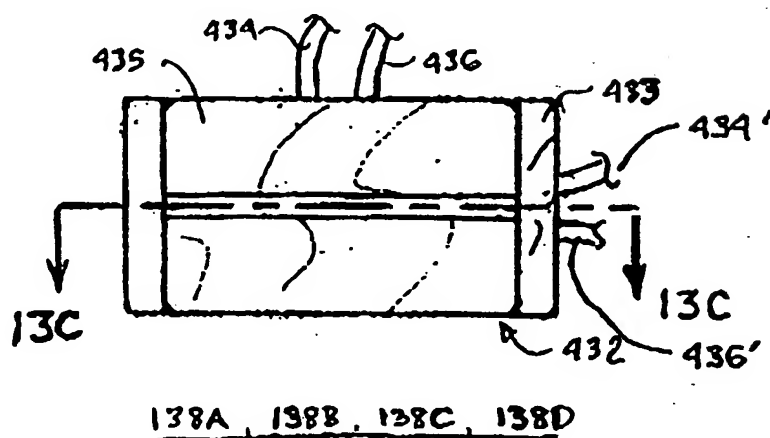


FIG. 13A

FIG. 13B



138A, 138B, 138C, 138D

FIG. 13C

FIG. 13D

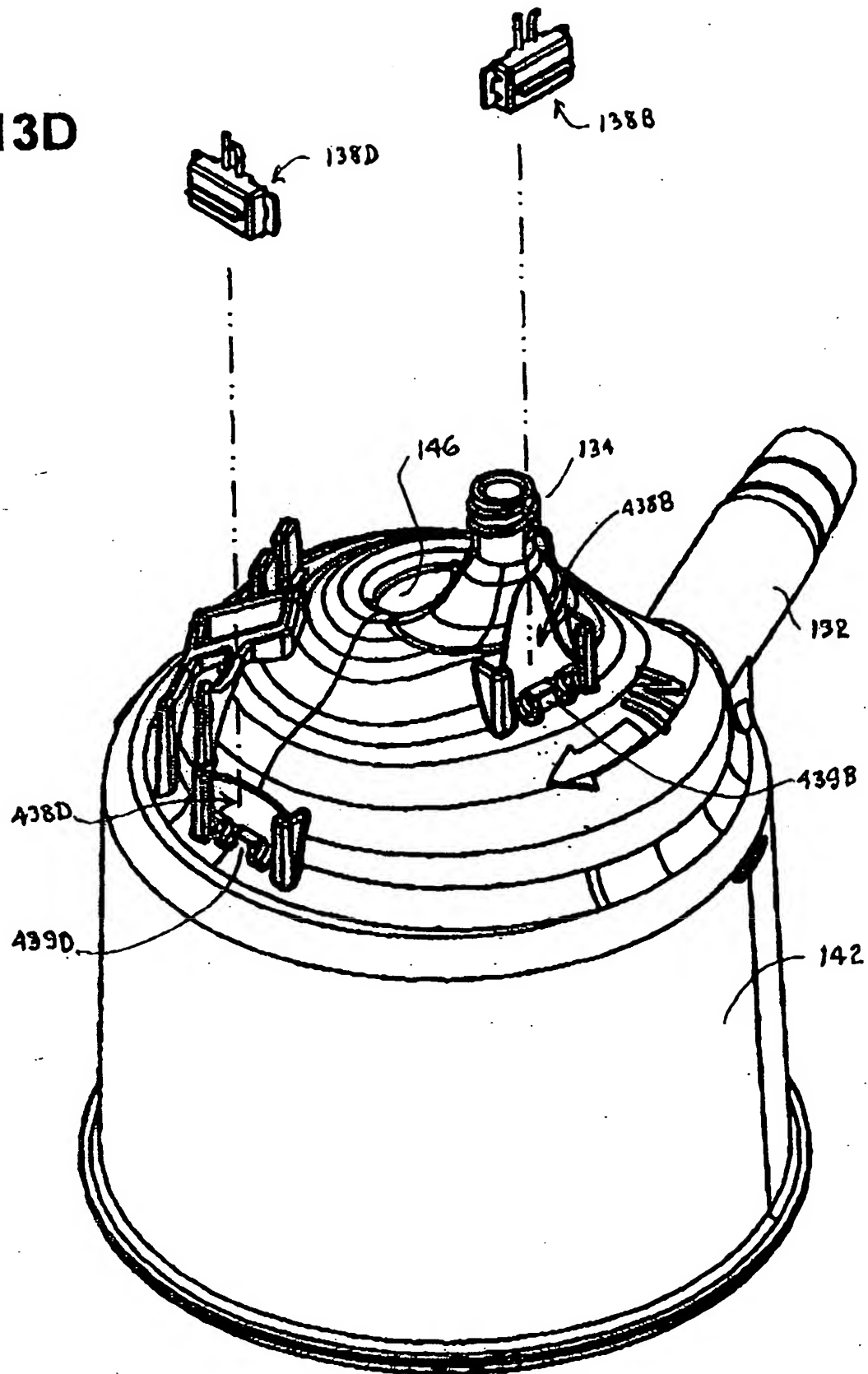


FIG. 13E

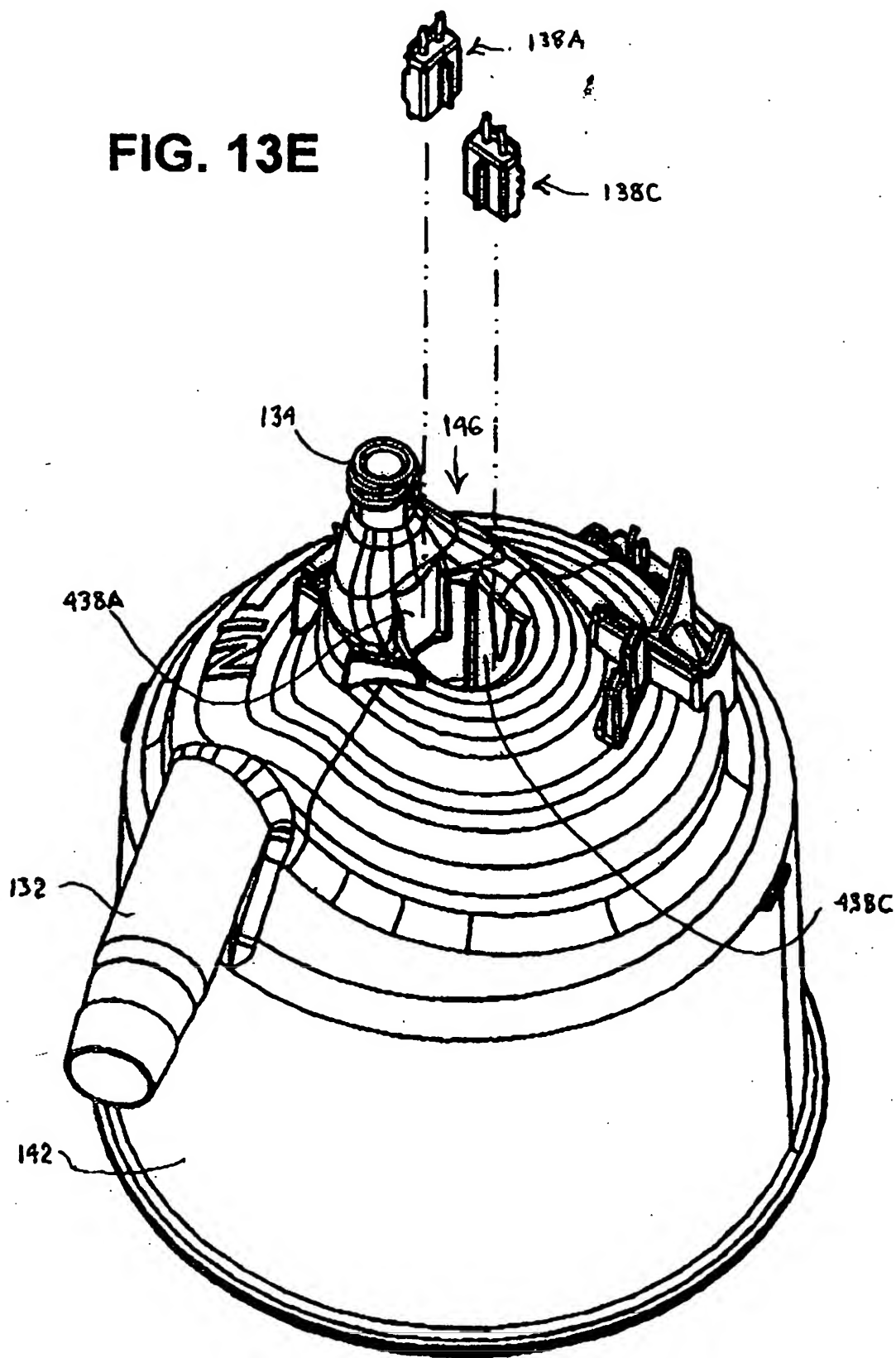
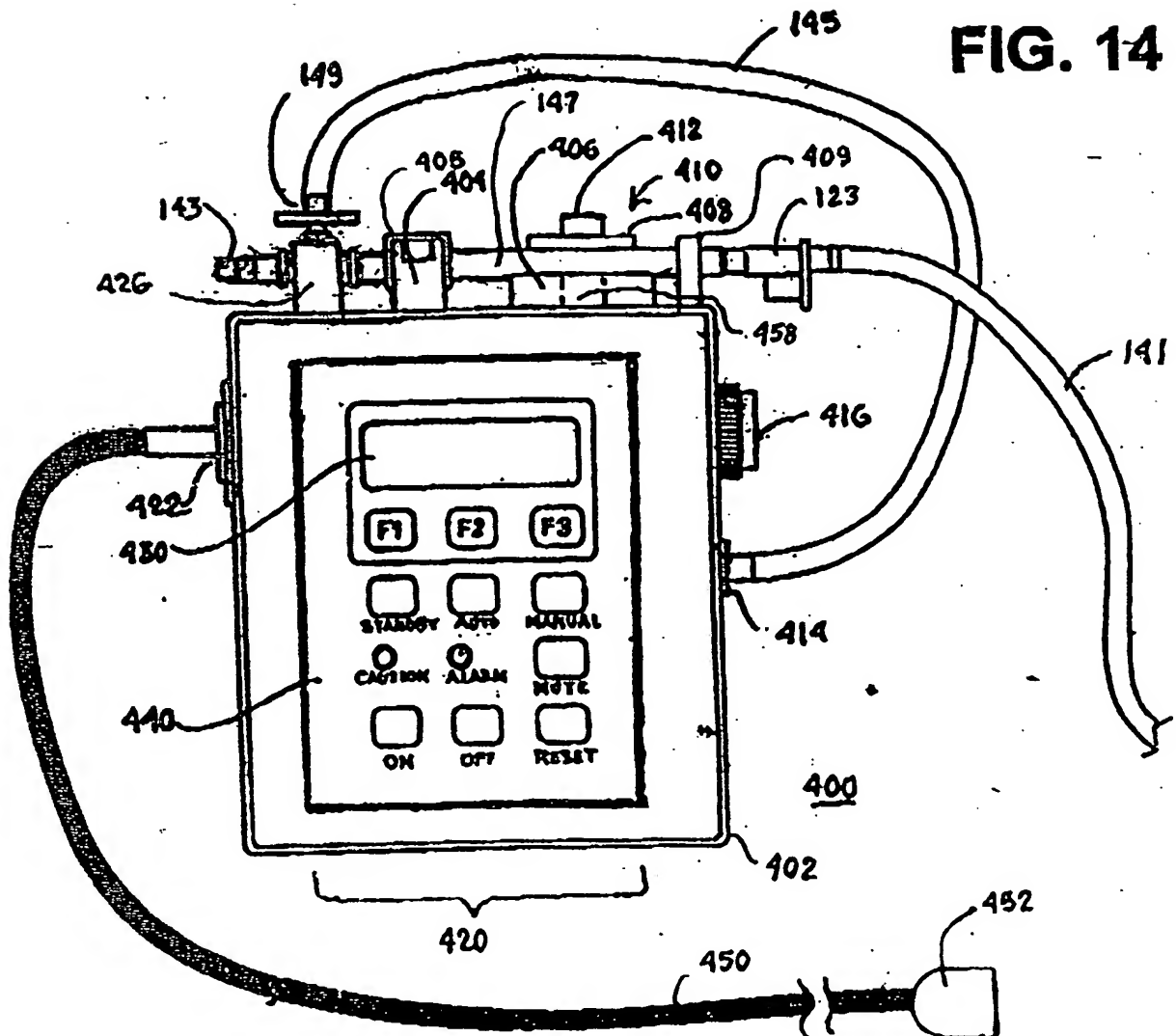


FIG. 14



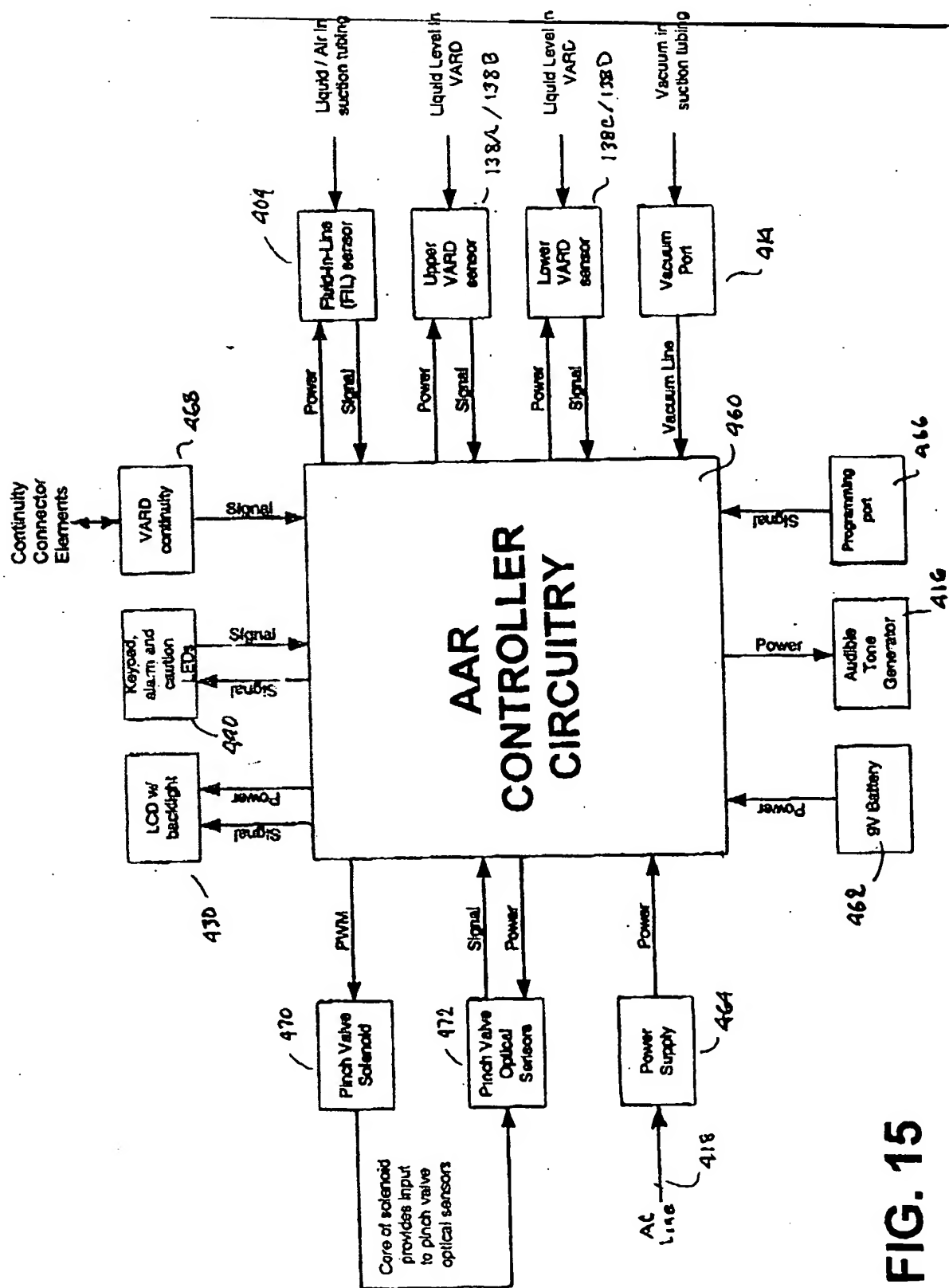


FIG. 15

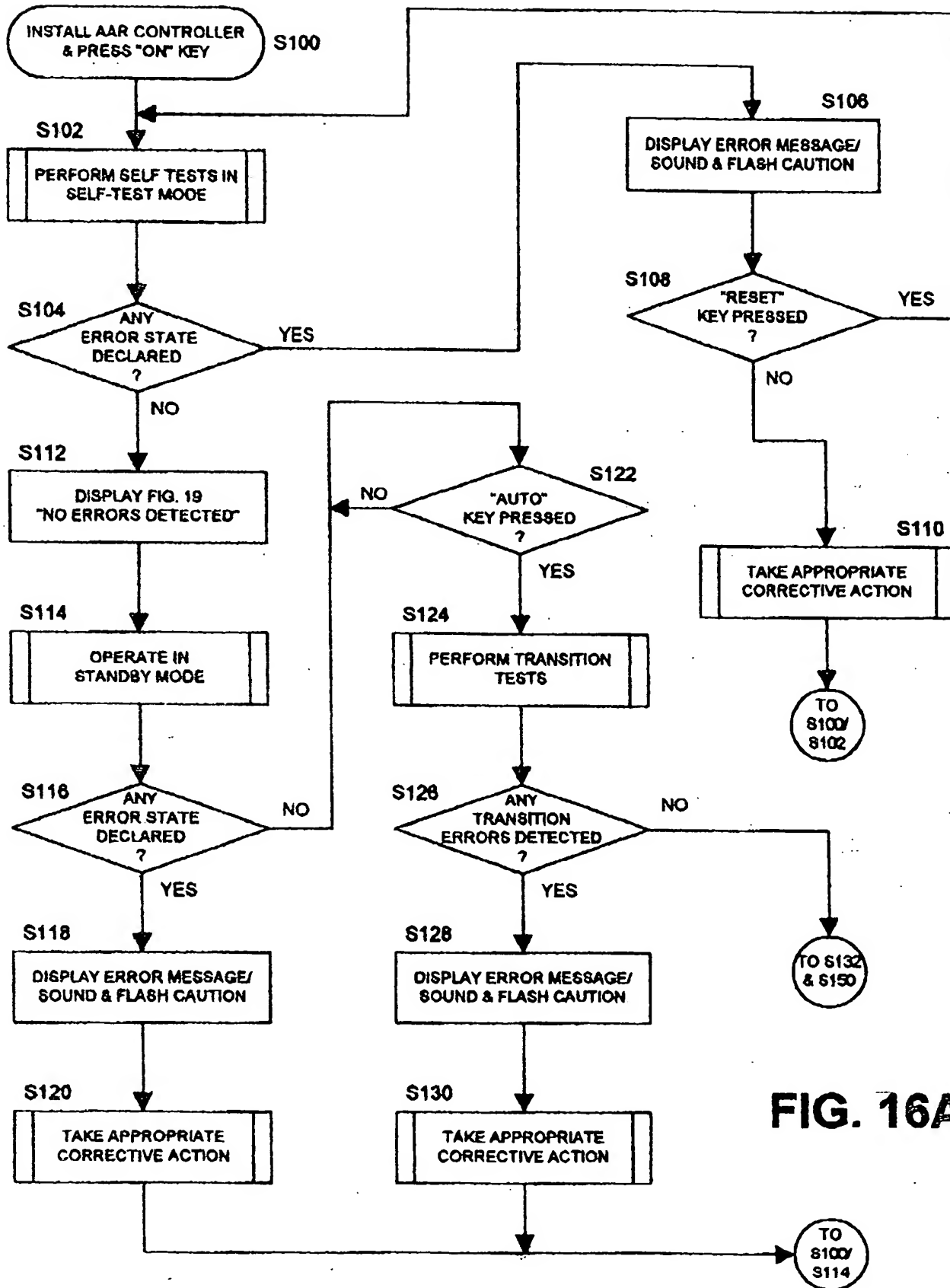


FIG. 16A

FIG. 16B

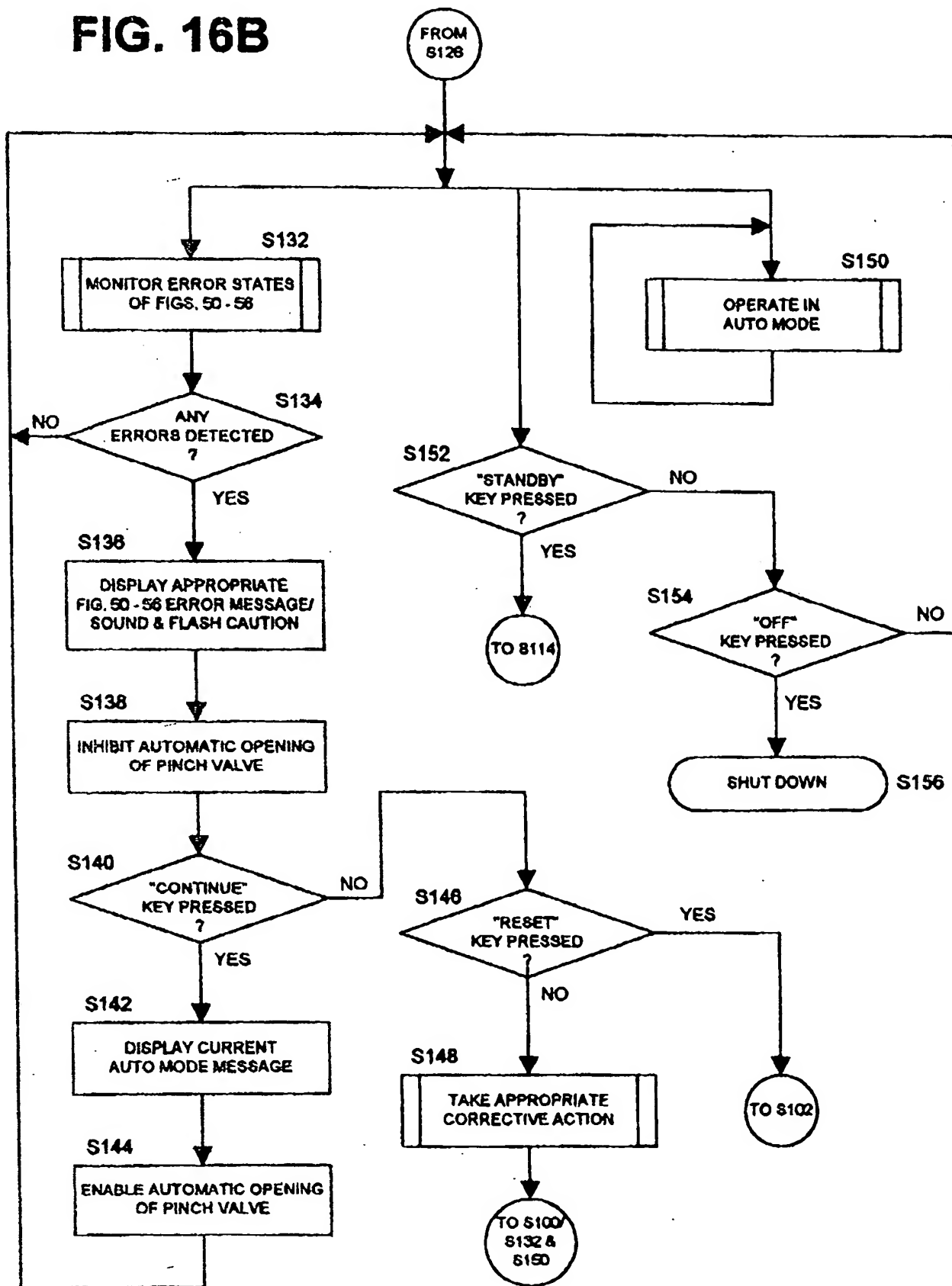


FIG. 17A

S160

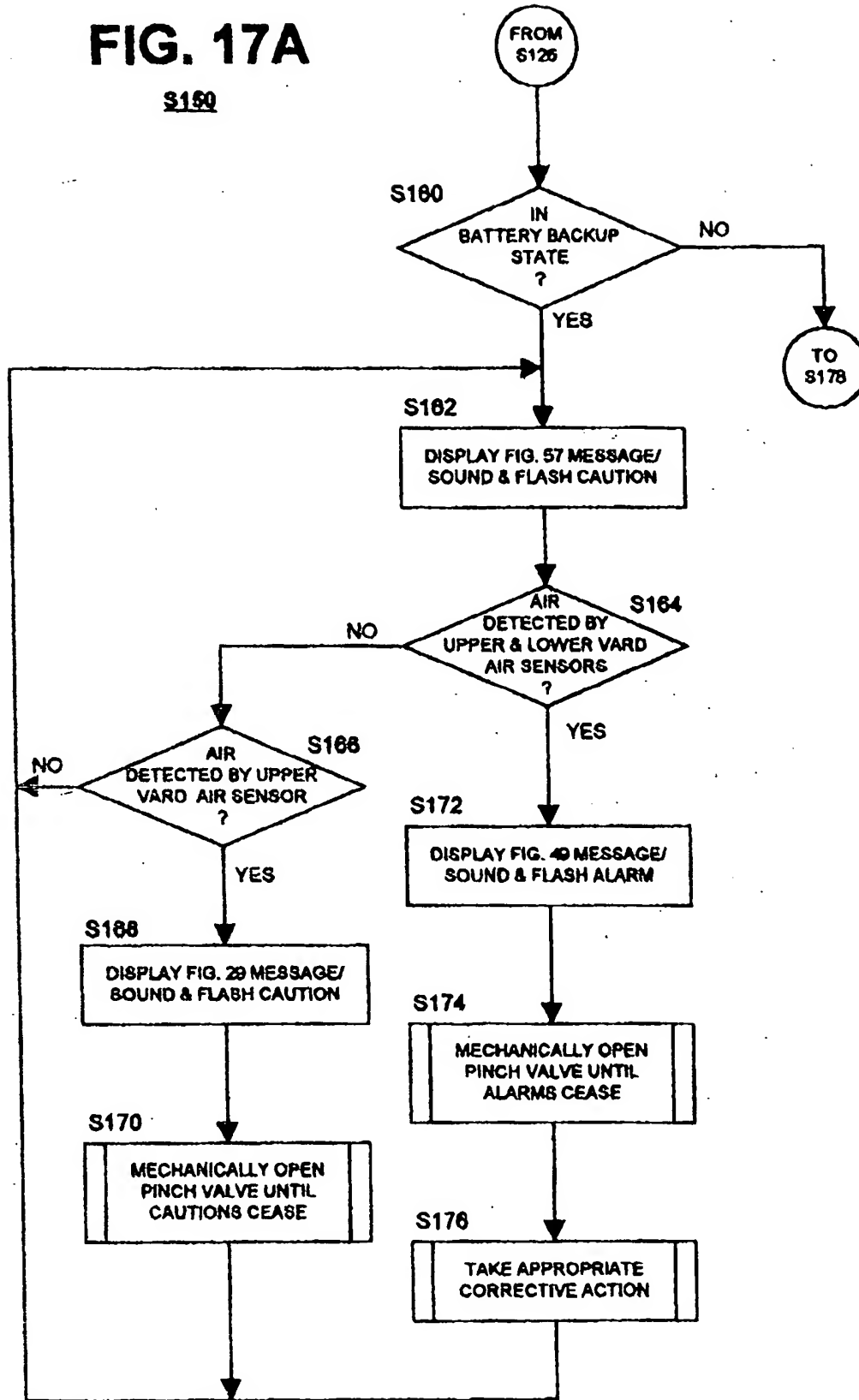
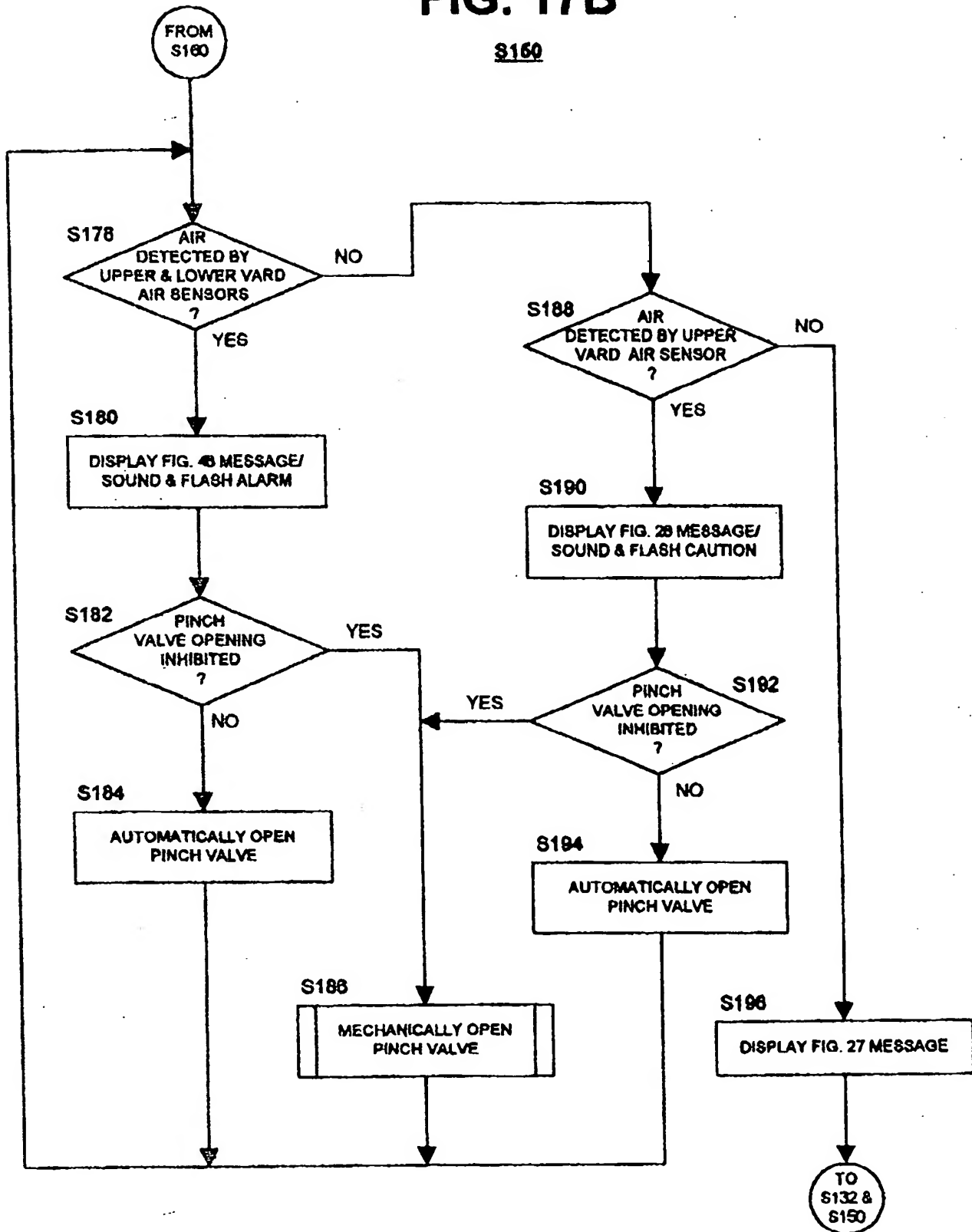


FIG. 17B

S160



FIRMWARE VERSION X.XX
PERFORMING SELF TEST

FIG. 18

SELF TEST COMPLETE
NO ERRORS DETECTED

FIG. 19

VALVE CLOSED
STANDBY MODE
SYSTEM READY
MENU

FIG. 20

LANG SENSOR RETURN

FIG. 21

SELECT LANGUAGE
ENGLISH
< > SELECT

FIG. 22

FLUID SENSOR TEST
SENSOR STATUS
AIR
RETURN

FIG. 23

FLUID SENSOR TEST
SENSOR STATUS
FLUID
RETURN

FIG. 24

VALVE OPEN
STANDBY MODE
SYSTEM READY
MENU

FIG. 25

**VALVE OPEN
STANDBY MODE
BATTERY BACKUP ON
MENU**

FIG. 26

**SELF TEST COMPLETE
CRC FAILURE
REPLACE AAR CONTROLLER**

FIG. 30

**VALVE CLOSED
AUTOMATIC MODE**

FIG. 27

**SELF TEST COMPLETE
VALVE STUCK OPEN
REPLACE AAR CONTROLLER**

FIG. 31

**VALVE OPEN
AUTOMATIC MODE
AIR IN VARD**

FIG. 28

**SELF TEST COMPLETE
VALVE STUCK CLOSED
REPLACE AAR CONTROLLER**

FIG. 32

**MANUAL OPERATION
OPEN THE VALVE**

FIG. 29

**SELF TEST COMPLETE
AAR CONTROLLER FAILURE
REPLACE AAR CONTROLLER**

FIG. 33

SELF TEST COMPLETE
LOW BATTERY
CONTINUE?

FIG. 34

VALVE CLOSED
STANDBY MODE
AIR IN VARD
MENU

FIG. 38

SELF TEST COMPLETE
NO BATTERY BACKUP
CONTINUE?

FIG. 35

VALVE CLOSED
STANDBY MODE
LOW SUCTION
MENU

FIG. 39

SELF TEST COMPLETE
BATTERY BACKUP ON
CONTINUE?

FIG. 36

VALVE CLOSED
STANDBY MODE
BATTERY BACKUP ON
MENU

FIG. 40

VALVE CLOSED
STANDBY MODE
VARD NOT CONNECTED
MENU

FIG. 37

VALVE CLOSED
STANDBY MODE
LOW BATTERY
MENU

FIG. 41

**VALVE CLOSED
STANDBY MODE
NO BATTERY BACKUP
MENU**

FIG. 42

**AAR CONTROLLER FAILURE
REPLACE AAR CONTROLLER**

FIG. 46

**VARD NOT CONNECTED
CONTINUE?**

FIG. 43

**LOW SUCTION
CONTINUE?**

FIG. 47

**CHECK VALVE TUBING
CONTINUE?**

FIG. 44

**VALVE OPEN
TOO MUCH AIR
ENTERING VARD**

FIG. 48

**CHECK VARD SENSORS
CONTINUE?**

FIG. 45

**MANUAL OPERATION
OPEN THE VALVE**

FIG. 49

**AUTOMATIC MODE
VALVE STUCK OPEN
CONTINUE?**

FIG. 50

**AUTOMATIC MODE
VARD SENSOR FAILURE
CONTINUE?**

FIG. 54

**AUTOMATIC MODE
VALVE FAILURE
CONTINUE?**

FIG. 51

**VALVE CLOSED
AUTOMATIC MODE
LOW SUCTION**

FIG. 55

**AUTOMATIC MODE
VALVE STUCK CLOSED
CONTINUE?**

FIG. 52

**AUTOMATIC MODE
VARD NOT CONNECTED
CONTINUE?**

FIG. 56

**SYSTEM FAILURE
BLOOD BEING REMOVED
CONTINUE?**

FIG. 53

**AUTOMATIC MODE
BATTERY BACKUP ON**

FIG. 57